## · IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Ref.:

Examiner:

Group:

1035-482

2676

In re Patent Application of

TSUBATA, T. et al.

Serial No.

10/717,917

Filed:

For:

November 21, 2003

DISPLAY DEVICE SUBSTRATE AND LIQUID CRYSTAL

MAR 1 6 2004

DISPLAY DEVICE HAVING THE SAME

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

## INFORMATION DISCLOSURE STATEMENT

冈 1. **PTO-1449 Pursuant to 37 CFR 1.97(b)** N/C [within 3 months of filing or prior to 1st Office Action] 2. Statement Pursuant to 37 CFR 1.97(c) [before Final Office Action or Allowance] N/C 3. Fee Payment Pursuant to 37 CFR 1.97(c) [before Final Office Action or Allowance] \$180.00 4. Pursuant to 37 CFR 1.97(d) \$180.00 [before Issue Fee payment]

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:

- $\boxtimes$ 5. A list of documents on Form PTO-1449 together with copies of each identified document and a translation or a concise explanation of each non-English language document is enclosed herewith.
  - X a) The partial translations were provided to the undersigned by the applicants' foreign representative. The undersigned has no knowledge regarding the pertinency of the partially translated portions vis-á-vis the document as a whole. The partial translations are merely provided for whatever convenience they may be.

This paper is submitted in accordance with:

"TSUBATA, T. et al. Serial No. 10/717,917

$\boxtimes$	6.	37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]						
	7.	37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and						
		a) The required Statement made in item 9 below; or						
		b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.						
	8.	37 CFR §1.97(d): [before issue fee payment]; and						
		a) The fee (\$180.00) required by 37 CFR §1.17(p) is submitted herewith; and						
		b) The required Statement is stated in item 9 below.						
	9.	Statement under 37 CFR 1.97(e)						
		a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement (each item contained in this IDS was the first citation of that item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to the filing of this IDS); or						
		b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.						
$\boxtimes$	10. Please charge all deficiency fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed							
Respectfully submitted,								
		NIXON & VANDERHYE P.C.						
Marc	ch 16,	By: Marren Burnam, Jr.						
HWB		Reg. No. 29,366						
		Glebe Road, 8th Floor  /A 22201-4714						
Telepl	hone:	(703) 816-4000						
Facsir	nile:	(703) 816-4100						

INFORMATION DISCLOSURE CITATION  1035-482 APPLICANT  TSUBATA, T. et al. FILING DATE  November 21, 2003 2676  U.S. PATENT DOCUMENTS  EXAMINER INITIAL  DOCUMENT NUMBER  DATE  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  TRANSLATION  TRANSLATION  TO 170957 A 6-1998 JP  10-170957 A 6-1998 JP  2001-33816 A 2-2001 JP  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)	Sheet	1 of 1	_	MAR 1 6 2004				
TSUBATA, T. et al. FILTING DATE  November 21, 2003 2676  U.S. PATENT DOCUMENTS  FILLING DATE  U.S. PATENT DOCUMENTS  FILLING DATE  NAME  CLASS SUBCLASS IF APPROPRIATE  OCCUMENT NUMBER  DATE  NAME  CLASS SUBCLASS IF APPROPRIATE  FOREIGN PATENT DOCUMENTS  TRANSLATION  DOCUMENT  DATE  COUNTRY  CLASS SUBCLASS VES NO  TRANSLATION  DOCUMENT  DATE  COUNTRY  CLASS SUBCLASS VES NO  TRANSLATION  DOCUMENT  DATE  COUNTRY  CLASS SUBCLASS VES NO  TRANSLATION  TRANSLATION  TRANSLATION  DATE  COUNTRY  CLASS SUBCLASS VES NO  TRANSLATION  T	INFOF		1035	-482 R				
TEXAMINER NITHAL  DOCUMENT NUMBER  DATE  NAME  CLASS SUBCLASS IF APPROPRIATE  NAME  CLASS SUBCLASS IF APPROPRIATE  PROPRIOR NAME  CLASS SUBCLASS IF APPROPRIATE  TO CLASS SUBCLA	(U	se several sheets if necessary)	TSUI	BATA, T. et al.	GROUP			
TEXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE  PORTION DOCUMENT DATE COUNTRY  CLASS SUBCLASS IF APPROPRIATE  TRANSLATION  TRANSLATION  DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A G-1998 JP PARIAI  2001-33816 A 2-2001 JP PARIAI  TOTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)		DOCUMENT NUMBER			CLASS	SUBCLASS		
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP Partial 2001-33816 A 2-2001 JP Partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  Include    Date Considered   Date through citation if not in conformance and not considered. Include								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP Partial 2001-33816 A 2-2001 JP Partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  Include    Date Considered   Date through citation if not in conformance and not considered. Include								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)						<u> </u>		<del> </del>
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY CLASS SUBCLASS YES NO  Date Considered  TRANSLATION YES NO  Date Considered  IDATE DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY CLASS SUBCLASS YES NO  Date Considered  TRANSLATION YES NO  Date Considered  IDATE DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)	- 101							
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)						<u> </u>		
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)								
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP partial 2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  Date Considered  ITRANSLATION YES NO  Date Considered  IDATE COUNTRY  CLASS SUBCLASS YES NO  Partial  Partial  Date Considered  IDATE DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)								<u></u>
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO  10-170957 A 6-1998 JP Partial  2001-33816 A 2-2001 JP Partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner Date Considered  *Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include			FC	REIGN PATENT DOCUMENTS			TRANSI	ATION
2001-33816 A 2-2001 JP partial  OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner  Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include		DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS		
OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)  *Examiner  Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								
*Examiner Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include		2001-33816 A	2-2001	JP			partial	
*Examiner Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								
*Examiner Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								
*Examiner Date Considered  Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include		OTHER DOO	UMENTS (	including Author, Title, Date, F	Pertinent pages,	etc.)		
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include								-
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include 2009 of this form with next communication to application.	*Examiner			Date Consider	ed			
Form PTO-FB-A820 (Also PTO-1449)	Examiner: Initia copy of this form	I if reference considered, whether on with next communication to application	r not citation is in ation.	n conformance with MPEP 609; Draw line throu	igh citation if not in confo			